

Date: Fri, 9 Jul 93 04:30:03 PDT  
From: Packet-Radio Mailing List and Newsgroup <packet-radio@ucsd.edu>  
Errors-To: Packet-Radio-Errors@UCSD.Edu  
Reply-To: Packet-Radio@UCSD.Edu  
Precedence: Bulk  
Subject: Packet-Radio Digest V93 #202  
To: packet-radio

Packet-Radio Digest                      Fri, 9 Jul 93                      Volume 93 : Issue 202

Today's Topics:

(none)  
ARCnet 2.5Mbps PC-card driver needed!  
commercial use of packet  
Help: KPC3 & com2 (2 msgs)  
Help with Packet and the HP95LX  
NET/ROM etc. protocols?  
RTTY DECODING  
Where 10 MHz SIO for TNC2? (2 msgs)  
Where can I FTP TheNet?

Send Replies or notes for publication to: <Packet-Radio@UCSD.Edu>  
Send subscription requests to: <Packet-Radio-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Packet-Radio Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/packet-radio".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

-----  
Date: 8 Jul 93 21:30:58 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: (none)  
To: packet-radio@ucsd.edu

UNSUBSCRIBE frankg@panix.com

-----  
Date: 8 Jul 93 11:49:33 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: ARCnet 2.5Mbps PC-card driver needed!  
To: packet-radio@ucsd.edu

From: OH2MKQ@OH2RBJ.FIN.EU  
To : PRAGA@PI8VNW.#ZH2.NLD.EU

OH2MKQ/TPK 1.81 Msg #:186 Date:04-07-93 Time:0:49Z

Hello,

I've purchased few ethernet (?) CONNECT ARCnet 2.5 Mbit/s cards for PC.

Now I need a driver or a way to connect 2 or 3 NOS'es together with 'em. A BOOT ROM that is missing would help too, I think.

If you don't know, PSE tell me who knows or an area in internet (there is too many to look for).

If you're still reading and know e-mail ADR for..:

CONNECT ARC-card (?)  
9 Hoerkaer  
DK-2730 Herlev

Phone.....+45 2 910344  
Fax.....+45 2 910633  
Telex.....slrshp dk  
Bank.....Handelsbanken  
AS reg.nr..157330  
Giro.....8 56 15 75

Thank you in advance.

73 es CUL de Janne, OH2MKQ @OH2BAW.FIN.EU -- interndt : oh2mkq@krk.fi

PLEASE reply to the list, NOT to the From: address  
because this mail is sent through a one-way gateway!

-----

Date: Wed, 7 Jul 1993 18:00:58 +0000  
From: pipex!bnr.co.uk!demon!llonde1.demon.co.uk!dave@uunet.uu.net  
Subject: commercial use of packet  
To: packet-radio@ucsd.edu

In article <9307071310.AA22458@metro.mccneb.edu> pmarsh@metro.mccneb.EDU writes:  
>

>  
>  
> I'm trying to locate information on how packet radio can be used in a non-  
> amateur-radio (commercial) setting. Are there any educational  
> institutions or businesses which use packet radio for computer  
> service/data delivery?

>  
I think you will find that British Gas use packet TNCs for some of their  
telemetry stuff. They are slightly different to an amateur TNC in that the  
modem is an FFSK one but apart from that, I would guess it is basically  
the same. I use the same type of TNC here (and at a few remote node sites)  
so they can't be \*that\* different.

Dave

```
*****
* G4WRW @ GB7WRW.#41.GBR.EU AX25      *   You think *you* have problems?   *
* dave@llondel.demon.co.uk Internet *   What do you do if you *are*       *
* g4wrw@g4wrw.ampr.org      Amprnet *   a manically depressed robot??    *
*****
```

-----

Date: Fri, 9 Jul 1993 02:35:52 GMT  
From: valinor.mythical.com!n5ial!jim@uunet.uu.net  
Subject: Help: KPC3 & com2  
To: packet-radio@ucsd.edu

In article <742011487.AA03362@psybbs.durham.nc.us>  
Kim.C..Callis%f1.n3641.z1@psybbs.durham.nc.us (Kim C. Callis) writes:

>Todd W. Carter (tcarter@access.digex.net) wrote:  
>: I have a KPC-3 that I am attempting to connect to my system. I have an  
>: internal modem that uses com2 and an external port on com2 that I have  
>: connected to the KPC-3.  
>  
>: Am I allowed to use the external port even if there's an internal board  
>: that uses it (but obviously not at the same time)? My TNC program  
>: (KaGold) won't recognize the connection and says there's a communications  
>: problem.

To put it simply, you have a problem. But, I believe you can probably also  
fix this problem. :-) Read on....

>Well, I am going to assume for the sake of argument that you are using  
>COM1 for a mouse or something like that.

We'll keep this assumption---the fact that both serial ports (the actual

serial port and the one on the internal modem) are both set for com2 more or less implies that something else is on com1 (or at least, uses IRQ3).

>Now being that you are using an  
>internal modem, there should be some jumpers on it to switch the com  
>port. What you will want to do is switch it to com 4 (because if you are  
>using something on COM1 like a mouse, the IRQ which it shares with COM3  
>will make the operation of one or the other [mouse and/or modem]  
>non-existent!).

Sorry, but this is bad advice (for more details, see a recent, similar thread on comp.dcom.modems, or e-mail me for the info). Basically, to put it simply, no two devices may share the same interrupt. There are specific cases where I/O cards are \*DESIGNED\* to get around this, but that's another story (and different hardware).

In the ``normal'' configurations, COM1 and COM3 both share IRQ4, while COM2 and COM4 both share IRQ3. So, if you have a serial port on both COM1 and COM2, you can't use IRQ4 and IRQ3 for anything else....meaning, assuming you do have something on COM1, you can't use COM3, and if you have something on COM2 (as you've said you do), you can't use COM4. This, of course, assumes that you use the ``normal'' interrupt/address combinations for COM3 and/or COM4.

Let's take a second look at what you have, and what you have to work with. Since most (common) serial ports deal only with the lower IRQ lines (usually only 3, 4, and 6), we'll only look at IRQ 2--7. Here's what the normal assignments are:

```
IRQ2:  *reserved* (AT and above --- free on XT)
IRQ3:  COM2 *or* COM4
IRQ4:  COM1 *or* COM3
IRQ5:  LPT1
IRQ6:  floppy drive
IRQ7:  LPT2 (if it exists)
```

You might take a look at what devices you have, and what interrupts are available/required by each. You can probably re-arrange things to make your system happy (e.g., one thing that you can usually do without problems is to disable the interrupts on your printer port and then use that interrupt line for something else).

E-mail me with the details of your system configuration, and we'll take it from there.

--jim

--

#include <std\_disclaimer.h>

73 DE N5IAL (/4)

-----  
INTERNET: jim@n5ial.mythical.com | j.graham@ieee.org ICBM: 30.23N 86.32W  
AMATEUR RADIO: (packet station temporarily offline) AMTOR SELCAL: NIAL  
-----

E-mail me for information about KAMterm (host mode for Kantronics TNCs).

-----  
Date: 9 Jul 1993 09:06:35 GMT  
From: pacbell.com!barrnet.net!noc.usfca.edu!noc.usfca.edu!callis@network.UCSD.EDU  
Subject: Help: KPC3 & com2  
To: packet-radio@ucsd.edu

Jim Graham (jim@n5ial.mythical.com) wrote:

: In article <742011487.AA03362@psybbs.durham.nc.us>

: Kim.C..Callis%f1.n3641.z1@psybbs.durham.nc.us (Kim C. Callis) writes:

: >Todd W. Carter (tcarter@access.digex.net) wrote:

: >: I have a KPC-3 that I am attempting to connect to my system. I have an

: >: internal modem that uses com2 and an external port on com2 that I have

: >: connected to the KPC-3.

: >

: >: Am I allowed to use the external port even if there's an internal board

: >: that uses it (but obviously not at the same time)? My TNC program

: >: (KaGold) won't recognize the connection and says there's a communications

: >: problem.

: >Well, I am going to assume for the sake of argument that you are using

: >COM1 for a mouse or something like that.

: We'll keep this assumption---the fact that both serial ports (the actual  
: serial port and the one on the internal modem) are both set for com2 more  
: or less implies that something else is on com1 (or at least, uses IRQ3).

: >Now being that you are using an

: >internal modem, there should be some jumpers on it to switch the com

: >port. What you will want to do is switch it to com 4 (because if you are

: >using something on COM1 like a mouse, the IRQ which it shares with COM3

: >will make the operation of one or the other [mouse and/or modem]

: >non-existent!).

: Sorry, but this is bad advicee

Again, we will make the assumption that this person is using a mouse on  
COM1: and the modem is currently on COM2: . Since this person will not  
be using the modem simultaneously with the TNC (This is an assumption on

my part since this person could be planning on running a voice-line BBS with a TNC gateway... But I doubt it.), it would be safe for bim to have this seeming IRQ conflict. Again they will not be competing for the interupt, since neither will be used in conjunction with the other.

--

\*\*\*\*\*  
\* Kim C. Callis \*  
\* Univ. of San Francisco, San Francisco, CA \*  
\* EMAIL: callis@usfca.edu or callis@dons.ac.usfca.edu \*  
\*\*\*\*\*

DISCLAIMER: As long as nothing I say attempts to represent the views of the Univ. of San Francisco, they could care less what I have to say. Meaning that anything said, like it or not, is strictly my own personal opinion and views.

-----  
Date: Thu, 8 Jul 1993 18:32:07 GMT  
From: usc!howland.reston.ans.net!gatech!news-feed-1.peachnet.edu!darwin.sura.net!news.duc.auburn.edu!ducvax.auburn.edu!anderjh@network.UCSD.EDU  
Subject: Help with Packet and the HP95LX  
To: packet-radio@ucsd.edu

I am interested in getting a tnc soon but still don't know what to look for after reading the faq. Specifically, what models are common, and how much they cost. I am also thinking of trying to hook up a Hewlett Packard 95LX to the tnc (1 meg version). Has anyone done this? The HP95 is a palmtop computer running DOS 3.31. It has a serial port and I have successfully hooked it up to a modem. I have a Kenwood TH-28A HT. Is this radio acceptable for packet? I am looking for my callsign any day now (took the technician test on May 16).

Jamie Anderson (ANDERJH@DUCVAX.AUBURN.EDU)

-----  
Date: Thu, 8 Jul 1993 00:09:57 +0000  
From: pipex!bnr.co.uk!demon!topsy.demon.co.uk!paul@uunet.uu.net  
Subject: NET/ROM etc. protocols?  
To: packet-radio@ucsd.edu

In article <1993Jul7.204331.3886@fcom.cc.utah.edu> dave@fcom.cc.utah.edu writes:

>I am planning on implementing my own software system for packet radio.  
>I have ordered the AX.25 spec from ARRL. Where Can I get the NET/ROM  
>(and/or KA-Node, TheNet or others) specifications? As a last resort  
>I guess I could take apart NOS, but I would rather work from specifications.

>

>Thanks,

>

Why bother? Apart from infringing the Copyright on KA-Node and Net/Rom, you're gonna waste \*alot\* of time in coding something suitable. Blow a copy of TheNet X1H (including tcp/ip auto routing) and leave the rest to the programmers.

73

--

```
=====
| Paul Turvey  "Modestly, unique"      Amateur: g1pjj@gb7zaa.#34.uk.eu  |
| Email: paul@topsy.demon.co.uk        Amprnet: paul@g1pjj.ampr.org    |
=====
```

-----

Date: Wed, 7 Jul 1993 17:59:07 +0000

From: pipex!bnr.co.uk!demon!llondel.demon.co.uk!dave@uunet.uu.net

Subject: RTTY DECODING

To: packet-radio@ucsd.edu

In article <742008561.AA05767@csource.oz.au>

David.Simpson@f393.n632.z3.fidonet.org (David Simpson) writes:

> I AM USING MFJ1278B WITH IBM 486SX, AND HAVING PROBLEMS DECODING

> COMMERCIAL RTTY..ANY CLUES PLEASE?

>

>

> \* Origin: Spectrum Radio - Melbourne's All Band Radio BBS (3:632/393.0)

>

Are you using the correct tone shift? I think some commercial RTTY uses a 425Hz shift. You also need to check whether it is running 45 or 50baud because that will screw your reception as well. Failing that, it might be scrambled in some way...

Dave

```
*****
* G4WRW @ GB7WRW.#41.GBR.EU AX25      *   You think *you* have problems?   *
* dave@llondel.demon.co.uk  Internet *   What do you do if you *are*      *
* g4wrw@g4wrw.ampr.org      Amprnet  *   a manically depressed robot??   *
*****
```

-----

Date: Thu, 8 Jul 1993 18:59:25 GMT

From: usc!sdd.hp.com!col.hp.com!news.dtc.hp.com!srngenprp!glenne@network.UCSD.EDU

Subject: Where 10 MHz SIO for TNC2?

To: packet-radio@ucsd.edu

[ Article crossposted from rec.radio.amateur.digital.misc ]  
[ Author was Glenn Elmore ]  
[ Posted on Thu, 8 Jul 1993 18:58:34 GMT ]

Does anyone know of a source for a small number, perhaps 6-10, of 10 MHz SIO (Z80 family) serial comm. chips to use in increasing the speed of a TNC2 or clone?

A quick look of the <standard places> doesn't reveal anything. PacComm sells a 10 MHz version of their Tiny2 but has it on 3 month delivery due to lack of the faster CPU and SIO parts.

I want to upgrade some TNCs for temporary use in a high speed backbone and need some parts.

Any pointers would be appreciated.

Thanks,

Glenn Elmore n6gn

N6GN @ K3MC  
amateur IP: glenn@SantaRosa.ampr.org  
Internet: glenne@sr.hp.com

-----  
Date: Thu, 8 Jul 1993 20:58:38 +0000  
From: pipex!bnr.co.uk!demon!llonde1.demon.co.uk!dave@uunet.uu.net  
Subject: Where 10 MHz SIO for TNC2?  
To: packet-radio@ucsd.edu

In article <C9v0r2.FtG@srngenprp.sr.hp.com> glenne@sr.hp.com (Glenn Elmore) writes:

> Does anyone know of a source for a small number, perhaps 6-10, of 10  
> MHz SIO (Z80 family) serial comm. chips to use in increasing the speed  
> of a TNC2 or clone?  
> A quick look of the <standard places> doesn't reveal anything.  
> PacComm sells a 10 MHz version of their Tiny2 but has it on 3 month  
> delivery due to lack of the faster CPU and SIO parts.  
> I want to upgrade some TNCs for temporary use in a high speed  
> backbone and need some parts.  
>

I could tell you where to get them in the UK, but that probably isn't much use to you :-)

Dave



```
*****
* G4WRW @ GB7WRW.#41.GBR.EU AX25      *   You think *you* have problems?   *
* dave@l1londe1.demon.co.uk Internet *   What do you do if you *are*     *
* g4wrw@g4wrw.ampr.org      Amprnet  *   a manically depressed robot??   *
*****
```

-----

Date: Thu, 8 Jul 1993 06:13:56 +0000  
From: pipex!uknet!bnr.co.uk!demon!l1londe1.demon.co.uk!dave@uunet.uu.net  
Subject: Where can I FTP TheNet?  
To: packet-radio@ucsd.edu

In article <1993Jul8.014750.7932@wicat.com> keithm@wicat.com (Keith McQueen)  
writes:

>  
> Where can I find/download/ftp/beg/borrow/etc the Netrom clone  
> known as TheNet? Any pointers would be helpful.  
>

Last time I looked, you could get TheNet X1H from ftp.demon.co.uk. Not sure  
of the directory, but I think it is in a 'hamradio' directory on there.

Dave

```
*****
* G4WRW @ GB7WRW.#41.GBR.EU AX25      *   You think *you* have problems?   *
* dave@l1londe1.demon.co.uk Internet *   What do you do if you *are*     *
* g4wrw@g4wrw.ampr.org      Amprnet  *   a manically depressed robot??   *
*****
```

-----

End of Packet-Radio Digest V93 #202

\*\*\*\*\*